PATENT COOPERATION TREATY

DOCKETED

From the INTERNATIONAL PRELIMINARY I XAMINER (AU DAVK DEPT.				
To: JOHN M. SHEEHAN FMC CORPORATION 1735 MARKET ST. PHILADELPHIA, PA 19103	PCT WRITTEN OPINION				
	CEIVED (PCT Rule 66)				
	Date of Mailing (day/month/year) 04 MAY 2004				
Applicant's or agent's file reference	REPLY DUE within 2 months/days from				
60285-PCT1	the above date of mailing				
International application No. Internation	nal filing date (day/month/year) Priority date (day/month/year)				
PCT/US03/20114 25 June 20	003 (25.06.2003) 26 June 2002 (26.06.2002)				
International Patent Classification (IPC) or both national					
IPC(7): C02F 1/72 and US C1.: 210/759, 763, 747, Applicant	908; 405/128.75				
FMC CORPORATION					
This written opinion is the <u>first</u> (first, e This opinion contains indications relating	etc,) drawn by this International Preliminary Examining Authority.				
I Basis of the opinion					
II Priority					
	n with regard to novelty, inventive step and industrial applicability				
<u> </u>	1				
IV Lack of unity of invention					
V Reasoned statement under Rule 66.2 (a)(ii) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement					
VI Certain documents cited					
VII Certain defects in the internal	tional application				
VIII Certain observations on the in	nternational application				
3. The applicant is hereby invited to reply	to this opinion.				
this-Authority to grant at	ted above. The applicant may, before the expiration of that time limit, request n extension. See rule 66.2(d).				
How? By submitting a written in For the form and the lan	reply, accompanied, where appropriate, by amendments, according to Rule 66.3. Inguage of the amendments, see Rules 66.8 and 66.9.				
For the examiner's oblig For an informal commun	nunity to submit amendments, see Rule 66.4. gation to consider amendments and/or arguments, see Rule 66.4 bis. nication with the examiner, see Rule 66.6				
	eliminary examination report will be established on the basis of this opinion.				
4. The final date by which the international examination report must be established a	according to Rule 69.2 is: 26 October 2004 (26.10.2004)				
Name and mailing address of the IPEA/US	Authorized officer 1 1 1 1				
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	Frank M. Lawrence Washi Falls Course				
P.O. Box 1450 Alexandria, Virginia 223 13-1450	Authorized officer Frank M. Lawrence Telephone No. 571-272-0987 4-44-04				

Facsimile No. (703) 305-3230
Form PCT/IPEA/408 (cover sheet)(July 1998)

WRITTEN OPINION

International application No.	
PCT/US03/20114	

I.	Basis of the opinion
1.	With regard to the elements of the international application:*
	the international application as originally filed
	the description:
	pages 1-27 , as originally filed
	pages NONE, filed with the demand
	pages NONE, filed with the letter of
	the claims:
	pages 28 and 29 , as originally filed
	pages NONE , as amended (together with any statement) under Article 19
	pages NONE , filed with the demand
	pages NONE, filed with the letter of
	the drawings:
	pages NONE, as originally filed
	pages NONE , filed with the demand
	pages NONE , filed with the letter of
	Also acquered listing part of the description:
	the sequence listing part of the description: pages NONE, as originally filed
	pages NONE , filed with the demand
	pages NONE, filed with the letter of
_	With regard to the language, all the elements marked above were available or furnished to this Authority in the
2.	language in which the international application was filed, unless otherwise indicated under this item.
	These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules
	55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written
	opinion was drawn on the basis of the sequence listing:
	contained in the international application in printed form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
	international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing
	has been furnished.
4.	The amendments have resulted in the cancellation of:
	the description, pages NONE
	the claims, Nos. NONE
	the drawings, sheets/fig NONE
5.	This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go
	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
* ,	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in
this	s opinion as "originally filed."

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WRITTEN OPINION

International application No. PCT/US03/20114

citations and explanations supporting sucl	n statement		
1. STATEMENT			
Novelty (N)	Claims	6-8, 13-17	YES
	Claims	1-5, 9-12	NO
Inventive Stan (IS)	Claims	NONE	YES
Inventive Step (IS)	Claims		NO
Industrial Applicability (IA)	Claims		YES NO
	Claims	NONE	NO
Claims 1-3 and 9-12 lack novelty under PCT Article teaches a method for the remediation of soil or grount to remove pesticides and other contaminants (see abstance). Claims 1-5, 9 and 16 lack novelty under PCT Article method of soil remediation comprising adding a compas sodium persulfate to remove pesticides and other contaminations of the claims except that the peroxyger monoperfulfate, and that preferred amounts of chelationary skill in the art would know to use any availate soil based on the teaching of sodium persulfate in the be parameters that would have been routinely optimize nature of contamination and the desired level of decordinary 17 lacks an inventive step under PCT Article 3 al.). NEWTON discloses all of the limitations of the care added sequentially. HOAG et al teach an in situation persulfate to the soil either sequentially or together as in the art at the time of the invention to modify the promethod of treatment in the situation where a premix in the care and the content of t	dwater compract, col. 3, 1 33(2) as being agent ontaminants (CT Article 33: a compound is not agent and ble persulfate patent. Also led by one har ontamination. (3(3) as being claim except is an aqueous socess of NEV is costly or not socess.	ising adding a peroxide and a Fe(II) EDT ines 30-46, col. 4, lines 12-51, claims 1, g anticipated by US 5,700,107 (NEWTO) that includes a chelating agent, a salt of ir abstract, col. 1, lines 52-67, col. 2, lines (3) as being obvious over NEWTON. NES a sodium or potassium monopersulfate of peroxygen compounds are used. It is subthat is known in the art to be capable of the amounts of peroxygen and chelating ving ordinary skill in the art at the time of obvious over NEWTON in view of US 6 that the chelating agent, transition metal, a thod for soil remediation, comprising additional to the components sequentity treadily available.	A chelate or Fe(III) salt 3). N). NEWTON teaches a ron, and a persulfate such 24-49, col. 4, lines 1- EWTON discloses all of a combination of di-and emitted that one having oxidizing contaminants in agents are considered to the invention based the 4,019,548 A (HOAG et and peroxygen compounding permanganate and ne having ordinary skill ially in order to provide a

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The description is objected to as containing the following defect(s) under PCT Rule 66.2(a)(iii) in the form or contents thereof: a		
The following defects in the form or contents of the international application have been noted:		
The description is objected to as containing the following defect(s) under PCT Rule 66.2(a)(iii) in the form or contents thereof: a period should be added at the end of line 30 on page 4.		

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WD	TTI	EN	\mathbf{O}	DIN	ION

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ME LIMIT:					TIME LIMIT:					
The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.										